

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 07, 2020

Brent Hedstrom

Crestone Peak Resources

2020 E. Grand Avenue, Suite 515

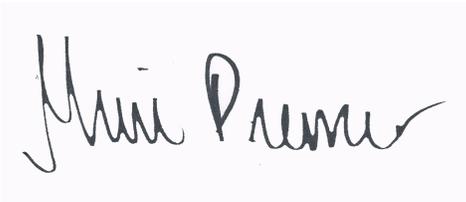
Laramie, WY 82070

RE: FILE 3A-32H

Work Order # 2007299

Enclosed are the results of analyses for samples received by Summit Scientific on 07/30/20 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury

President



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: FILE 3A-32H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/07/20 10:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FILE 3A-32H	2007299-01	Water	07/21/20 00:00	07/30/20 12:00

Summit Scientific

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Summit Scientific

2007299

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: Crestone Peak Resources

Project Manager: Brent Hedstrom

Address: 10188 East I-25 Frontage road

E-Mail: brent.hedstrom@crestonepr.com

City/State/Zip: Firestone, CO 80504

LOE C82210

Phone: 303-434-3007

Project Name: FILE 3A-32H

COGCC 452934

Sampler Name:

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175		
1	FILE 3A-32H	7/21/2020		11					X					X	X	X	X	X	X	X	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time: 12:00	Received by:	Date/Time: 07-30-20 12:00	Turn Around Time (Check)	Notes:
<i>Bk</i>	7/30/20	<i>MD</i>		Same Day <input type="checkbox"/>	ON ICE
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 11.6	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

2007299

Sample Receipt Checklist

S2 Work Order _____

Client: Crestone Peak Resources Client Project ID: File 3A-32H

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	11.6
-----------	------

Thermometer ID: 61857155-K

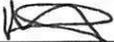
	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	anions
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

HNO3 preserved bottle not at less than 2

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

MP
Custodian Printed Name or Initials


Signature of Custodian

7/30/20
Date/Time



Crestone Peak Resources
 2020 E. Grand Avenue, Suite 515
 Laramie WY, 82070

Project: FILE 3A-32H

Project Number: [none]
 Project Manager: Brent Hedstrom

Reported:
 08/07/20 10:10

FILE 3A-32H
2007299-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	11000	1000	ug/l	1000	2008002	08/03/20	08/04/20	EPA 8260B	
Toluene	70000	1000	"	"	"	"	"	"	
Ethylbenzene	24000	1000	"	"	"	"	"	"	
Xylenes (total)	210000	2000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	17000000	500000	"	"	"	"	"	"	

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		136 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		179 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1000000	500	mg/L	100	2008003	08/03/20	08/04/20	EPA 8015M	

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		21400 %	58.9-148		"	"	"	"	S-02

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Project: FILE 3A-32H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/07/20 10:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2008002 - EPA 5030 Water MS

Blank (2008002-BLK1)

Prepared: 08/03/20 Analyzed: 08/05/20

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Gasoline Range Hydrocarbons	ND	500	"								
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104		23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.6		20-170			
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.0		21-167			

LCS (2008002-BS1)

Prepared: 08/03/20 Analyzed: 08/05/20

Benzene	36.9	1.0	ug/l	33.3		111		70-130			
Toluene	37.3	1.0	"	33.3		112		70-130			
Ethylbenzene	41.1	1.0	"	33.3		123		70-130			
m,p-Xylene	83.4	2.0	"	66.7		125		70-130			
o-Xylene	40.0	1.0	"	33.3		120		70-130			
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106		23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.4		20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1		21-167			

Matrix Spike (2008002-MS1)

Source: 2007320-01

Prepared: 08/03/20 Analyzed: 08/05/20

Benzene	37.4	1.0	ug/l	33.3	ND	112		70-130			
Toluene	38.1	1.0	"	33.3	ND	114		70-130			
Ethylbenzene	40.6	1.0	"	33.3	ND	122		70-130			
m,p-Xylene	82.0	2.0	"	66.7	ND	123		70-130			
o-Xylene	38.7	1.0	"	33.3	ND	116		70-130			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		108		23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3		20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.2		21-167			

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Project: FILE 3A-32H

Project Number: [none]
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 08/07/20 10:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limits	RPD	Limit		

Batch 2008002 - EPA 5030 Water MS

Matrix Spike Dup (2008002-MSD1)

Source: 2007320-01

Prepared: 08/03/20 Analyzed: 08/05/20

Benzene	37.7	1.0	ug/l	33.3	ND	113	70-130	0.692	30	
Toluene	38.9	1.0	"	33.3	ND	117	70-130	2.18	30	
Ethylbenzene	40.8	1.0	"	33.3	ND	122	70-130	0.442	30	
m,p-Xylene	81.4	2.0	"	66.7	ND	122	70-130	0.710	30	
o-Xylene	39.4	1.0	"	33.3	ND	118	70-130	1.95	30	
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.3		117	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.6	21-167			

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Project: FILE 3A-32H

Project Number: [none]
 Project Manager: Brent Hedstrom

Reported:
 08/07/20 10:10

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2008003 - EPA 3520B

Blank (2008003-BLK1)

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) ND 5.0 mg/L

LCS (2008003-BS1)

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) 49.8 5.0 mg/L 50.0 99.6 70-130

Matrix Spike (2008003-MS1)

Source: 2007321-03

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) 45.0 5.0 mg/L 50.0 ND 90.0 70-130

Matrix Spike Dup (2008003-MSD1)

Source: 2007321-03

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) 39.1 5.0 mg/L 50.0 ND 78.3 70-130 13.9 20

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Project: FILE 3A-32H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/07/20 10:10

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference